Futaba® 1M23N26727

Telemetry RPM Sensor (Brushless type)
SBS-01RB
Instruction Manual

Brushless Motor

Telemetry Transmitter
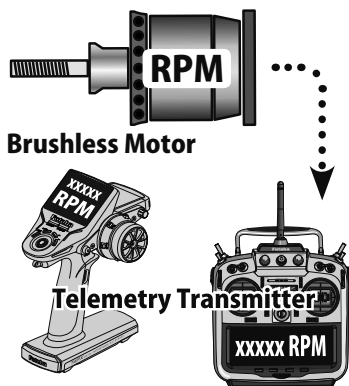
The RPM of a brushless motor can be viewed on your transmitter without removing the motor's magnet using only a wiring connection (soldering is necessary).

● The SBS-01RB can be used with Futaba telemetry transmitters and receivers and drive use brushless motors.

Thank you for purchasing Futaba's SBS-01RB brushless motor RPM sensor. By combining the SBS-01RB with a telemetry receiver, the RPM of a drive use brushless motor mounted in a model can be transmitted from the receiver to the transmitter. You can monitor the RPM of the model during flight (running). Please read this manual thoroughly to maximize your enjoyment and ensure proper sensing performance. We also encourage you to retain the manual for future reference.

Use : Brushless motor RPM Sensor
Length : 475mm (18.7")
Weight : 3.8g (0.134oz)
Voltage : DC3.7 ∼ 7.4V
Range : 360 ∼ 300,000RPM

LED Indication

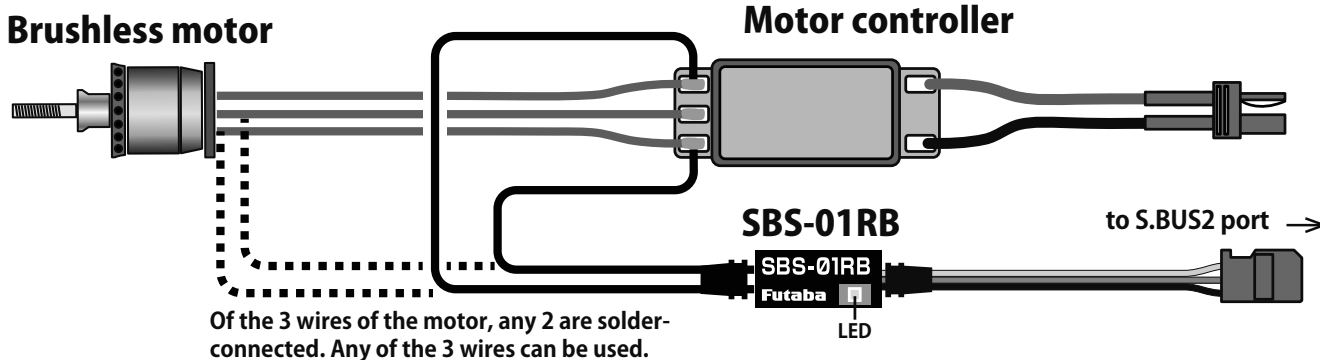| Green	Normal operation
Red	No signal reception
Green/Red	When setting up the slot
Green/Red Alternate blink	Unrecoverable error

⚠ WARNING

🛈 **To utilize the SBS-01RB sensor, connect it to the S.BUS2 port of the Futaba telemetry enabled receivers.**

■ The SBS-01RB will not function properly if connected to an S.BUS port or other channel ports.

🚫 **Do not use the SBS-01RB with anything other than an electric R/C model.**

🛈 **Ensure that the unit is mounted in an area that will eliminate exposure to fuel, water and vibration.**

■ As with any electronic components, proper precautions are urged to prolong the life and increase the performance of the SBS-01RB.

🛈 **To ensure that the SBS-01RB is functioning as desired, please test accordingly.**

■ Do not use until inspection is complete.

🛈 **Allow a slight amount of slack in the SBS-01RB cables and fasten them at a suitable location to prevent any damage from vibration.**

Slot Number Setup

Please note that the proper default slot for this accessory is number two. Information on how to change the slot assignment is included in the transmitter's manual.

Wiring

Brushless motor

Motor controller

SBS-01RB

to S.BUS2 port →

SBS-01RB Futaba
LED

Of the 3 wires of the motor, any 2 are solder-connected. Any of the 3 wires can be used.

Number of poles of aircraft motor

Each aircraft use brushless motor has a different number of poles. The number of poles of the motor used must be checked against the motor instruction manual and entered at the telemetry RPM setup screen of the transmitter. (Car use motors do not have to be set.) When the transmitter does not have a number of poles input item, input 1/2 the value of the number of poles at the gear ratio.

For a 14-pole motor → gear ratio 7.00
*When you want to display the motor RPM of a car use motor, set the gear ratio to 1.00

Helicopter rotor RPM

When you want to display the RPM of a helicopter rotor or of the propeller of an aircraft with its gear down instead of motor RPM, make the following settings.

For transmitter setting, select magnet type.

1/2 number of poles × gear ratio = Input this value at the transmitter gear ratio.

(Example)
For 14 poles with a gear ratio of 6

7（1/2 number of poles）× 6 = 42

Input 42.00 at the gear ratio.

*The upper limit of the gear ratio of the T10J is 30.00. If this is insufficient, the gear ratio can be updated (maximum 99.99) by a Futaba Support Center. Please inquire.

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